

Concept study of the first Porsche Cross-Utility Vehicle (CUV) celebrates its premiere in Asia

## **Porsche Mission E Cross Turismo: The electric high-performer for an active lifestyle**

Spark for the future: The presentation of the Mission E Cross Turismo from Porsche at Auto China is a concept study of an electric powered Cross-Utility Vehicle (CUV). This all-rounder is targeted at people with an active lifestyle who like to spend their leisure time travelling, doing sports or other outdoor activities. Thanks to the all-wheel drive, any ski piste can be reached with ease, while the flexible interior has plenty of space for sports equipment of all kinds and the modern mounting systems make it easy to transport surfboards or a Porsche e-bike.

The advantages of this four-door four-seater include an emotional design with striking off-road elements as well as the new display and control concept with touchscreen displays and eye tracking. The 4.95-m-long concept vehicle features an 800-volt architecture and is ready for charging on the 800-volt fast-charge network. It can also be charged via induction, a charging dock or a Porsche home energy management system. The road-ready Mission E Cross Turismo is a continuation of the Mission E study that Porsche presented at the International Motor Show (IAA) in 2015.

### **The design: Unmistakeable Porsche DNA**

A low bonnet between powerfully curved wings: Even at first glance, the front of the Mission E Cross Turismo clearly reveals its ties with the sports car icon Porsche 911. The vertical air intakes at the front, known as “air curtains”, provide one of the striking design features. Matrix LED headlights represent another style highlight. The typical Porsche four-point daytime running lights have been developed into narrow, three-dimensional glass elements. Embedded in four floating wings, these lights also feature the new four-point indicator. In addition, the vehicle benefits from the Porsche X-Sight high-performance high beam. Off-road design elements include the rugged wheel arches and door sills, the striking look of the front spoiler and rear apron, and the increased ground clearance.

The silhouette is marked by the sporty roofline that tapers towards the rear – termed the “flyline” by the Porsche designers. This feature echoes the rear of the Panamera Sport Turismo. The dynamic design of the side windows is just as typical for the Porsche style. The broad wings and three-dimensional side walls with air outlets behind the front wheels reinforce the sporty crossover character of the 1.99-m-wide concept vehicle. Distinctive side skirts with an off-road look and 20-inch wheels with 275/40 R 20 tyres are among the vehicle’s other defining features.

The study with its exclusive Light Grey Metallic paint is also immediately recognisable as a Porsche from the back. In addition to the sporty, flow-through roof spoiler, the vehicle also features the traditional, full-length light strip. The Porsche lettering illuminated in white comprises glass letters and is embedded within a three-dimensional cover with a circuit path graphic. The “E” in the “Porsche” lettering pulsates when the vehicle is charging, and the circuit paths are brought to life by light pulses, giving customers an impressively tangible experience of the vehicle’s energy flow. The large panoramic glass roof extending from the windscreen to the tailgate delivers a generous feeling of spaciousness.

### **The versatility: Equipped for all mobility needs**

The Mission E Cross Turismo gives an insight into how a series-production Turismo variant with cross-utility attributes could look: a vehicle that is suitable in equal measure for travelling, everyday life and adventure, and a versatile companion in the city or in the country. The crossover model is targeted at people with an active lifestyle who like to spend their leisure time doing sports or other outdoor activities. Passengers benefit from the versatility of the 1.42-m-high four-seater: A hatch is integrated into the backrests of the two individual seats in the rear, useful for loading items like skis. The backrests themselves can be folded down. In the luggage compartment, there is a rail system with adjustable and removable belts, allowing objects to be stowed quickly and securely. Away from the vehicle, Mission E Cross Turismo passengers also benefit in the form of the Porsche e-bike, which supports riders with electric power from a high-performance electric drive.

## **The interior: Visible lightweight structures**

The interior delivers an entirely new interpretation of classic Porsche elements and carries them into the digital age. Take the instrument panel for example: This component emphasises the width of the vehicle and consists of a wing-shaped top and bottom section. The dashboard has a clear horizontal arrangement with an ultra-wide display for the driver and front passenger. The free-standing instrument cluster is curved and inclined towards the driver, and consists of three circular display graphics, digitally displayed on TFT screens. The centre console between the front seats rises in the direction of the dashboard. Together with the ambient lighting, indirect lighting of the centre console creates a particularly unique mood.

The design elements in the interior also include visible lightweight structures, such as the dashboard and the sporty seats reminiscent of bucket-type racing seats, which feature illuminated Porsche lettering. The door panels have innovative 3D elements with a structured surface. Anodised trims around components like the air vents or the window regulator modules in Nordic Blue provide a colourful contrast to the exclusive two-tone concept of the interior with Aniline leather in Black and Light Grey.

## **The powertrain: Sporty e-performance thanks to over 600 hp**

Two permanently excited synchronous motors with a system output of over 600 hp (440 kW) accelerate the Mission E Cross Turismo to 100 km/h in less than 3.5 seconds and to 200 km/h in under twelve seconds. This performance is in addition to a continuous power level that is unprecedented among electric vehicles: Multiple jump starts are possible in succession without loss of performance. The demand-controlled all-wheel drive with Porsche Torque Vectoring, which automatically distributes torque to the individual wheels, transfers the power to the road.

## **The chassis: Adaptive air suspension for comfort and agility**

All-wheel steering contributes to the exemplary agility and stability of this vehicle, while the adaptive air suspension allows an increased clearance of up to 50 millimetres. Porsche Dynamic Chassis Control (PDCC) is another feature available on board. This system provides active roll stabilisation and prevents lateral inclination of the vehicle when cornering. It also reduces lateral instability on bumpy terrain.

## **The displays and control concept: A unique user experience**

A highlight of the Mission E Cross Turismo is a new display and control concept. Intuitive

operation and information such as the head-up display optimally positioned in the driver's field of vision do not distract the driver. And thanks to the new connectivity solutions, the vehicle can also be perfectly integrated into a digital lifestyle. The result is a highly unique user experience.

The most important display and control options include:

- **Driver display with eye tracking:** The instrument cluster comprises three virtual round instruments. These are assigned to the categories of Porsche Connect, Performance, Drive, Energy and Sport Chrono. Using a camera in the interior mirror, the eye-tracking system can recognise which instrument the driver is looking at. The displays that the driver is interested in are then moved to the foreground, while the others are reduced into the background accordingly as a result of looking away from them. The displays are operated using smart-touch controls on the steering wheel.
- **Passenger display:** This screen extends over the entire width of the passenger side. The passenger can operate various apps via eye tracking and touch technology, allowing access to functions like media, navigation, climate control and contacts.
- **Touch control field in the centre console** with detailed information menus.
- **Small touchscreens:** These screens are situated in the multifunctional window regulator modules (for seat adjustment and seat comfort functions) as well as in the finless air vents on the right and left of the dashboard. By swiping left and right on these touchscreens, the ventilation strength can be adjusted for example.

The "smart cabin" approach simplifies operation. The vehicle settings, interior climate and ambient lighting are all automatically adjusted to the wishes of the occupants and the respective driving situation.

The driver can also access a variety of information and adjust settings away from the vehicle: All customisation options from the air-conditioning system to navigation can be set in advance via a tablet, smartphone or smartwatch.

## **The "DestinationsApp": A personal travel assistant**

Porsche Connect already offers more than 20 digital services and apps. In the Mission E Cross Turismo, the "DestinationsApp" demonstrates which additional benefits the digital platform may offer in the near future: Using this app, a weekend trip can be planned quickly and easily in just a few steps on a smartphone. The app suggests inspirational travel destinations, enables reservations to be made quickly and effortlessly, and handles route planning, restaurants and sports equipment. The driver can even tailor the chassis of the Mission E Cross Turismo to the selected route via the "DestinationsApp", as well as choosing the most suitable music, climate control and ambient lighting for the journey.

## **Charging: Fast and effortless**

The 800-volt architecture in the vehicle ensures that the lithium-ion battery is charged for a range of approximately 400 kilometres (based on the NEDC) in around 15 minutes. The concept vehicle allows flexible charging both on the move and at home, and is compatible with the fast-charging network that is being established on European roads as part of the

IONITY joint venture. At the workplace, the Mission E Cross Turismo can be charged via induction technology, and at home either a charging dock or Porsche home energy management system can be used to recharge the battery. The latter option can be combined with the home's own photovoltaic system to recharge using solar energy.